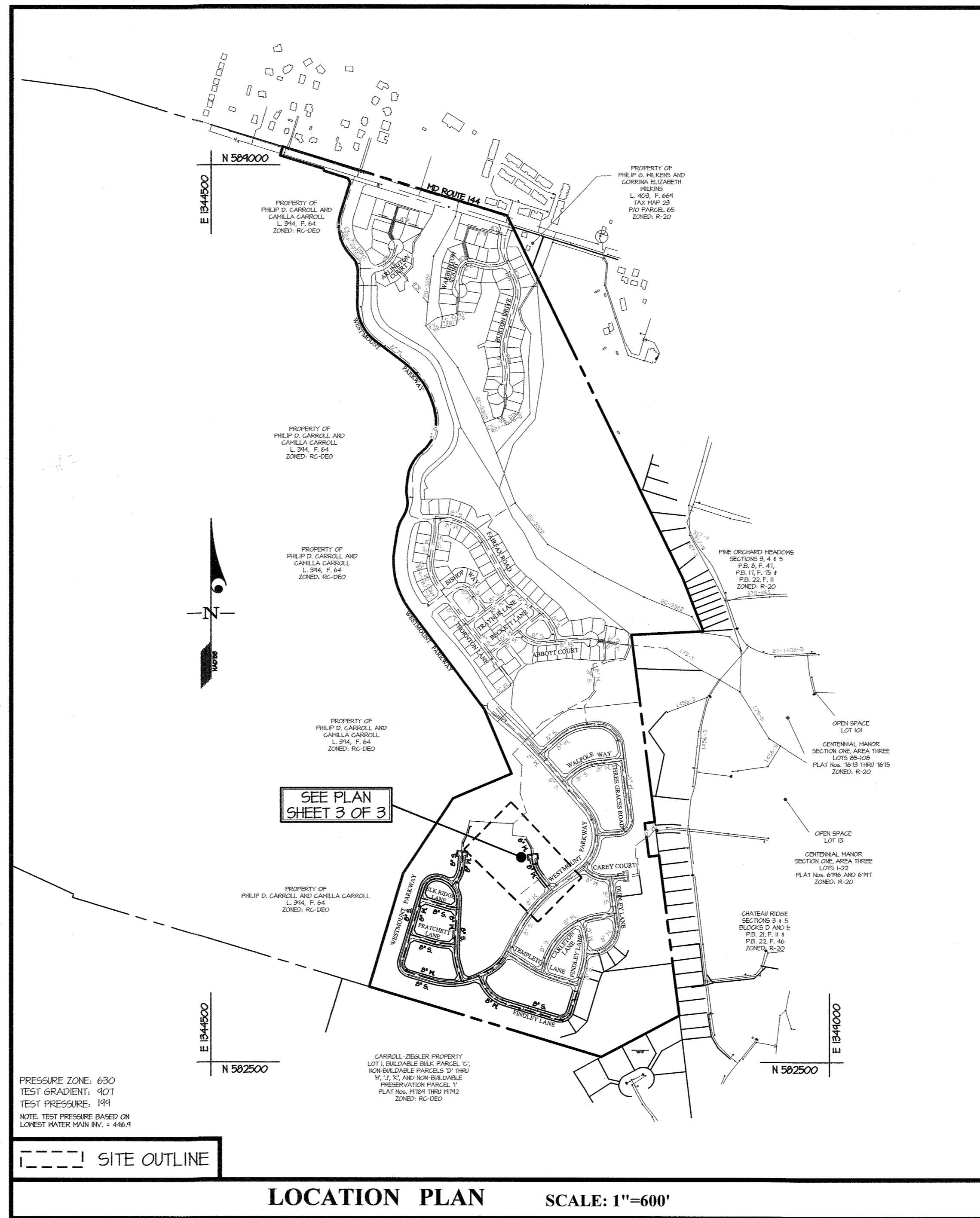


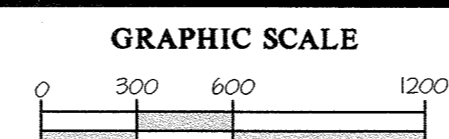
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
6" DIP (FH LEAD)	6 L.F.			
8" PVC WATER MAIN (C-400 DR-10)	256 L.F.			
6" PVC WATER MAIN (C-400 DR-10)	154 L.F.			
1-1/2" MHG	223 L.F.			
1" METER VAULT	4 EA.			
8"x6" FHT	1 EA.			
FIRE HYDRANTS	1 EA.			
8"x6" REDUCER	1 EA.			
8" 1/32 BEND	3 EA.			
8" 2.0" HDC	1 EA.			
6" 1/6 BEND	1 EA.			
6" 2" HDC	1 EA.			
6" 2.5" HDC	1 EA.			
BLOW-OFF VALVE	1 EA.			

NAME OF UTILITY CONTRACTOR: _____

SURVEY AND DRAFTING DIV. CHECKBOX: _____ AS-BUILT DATE: _____

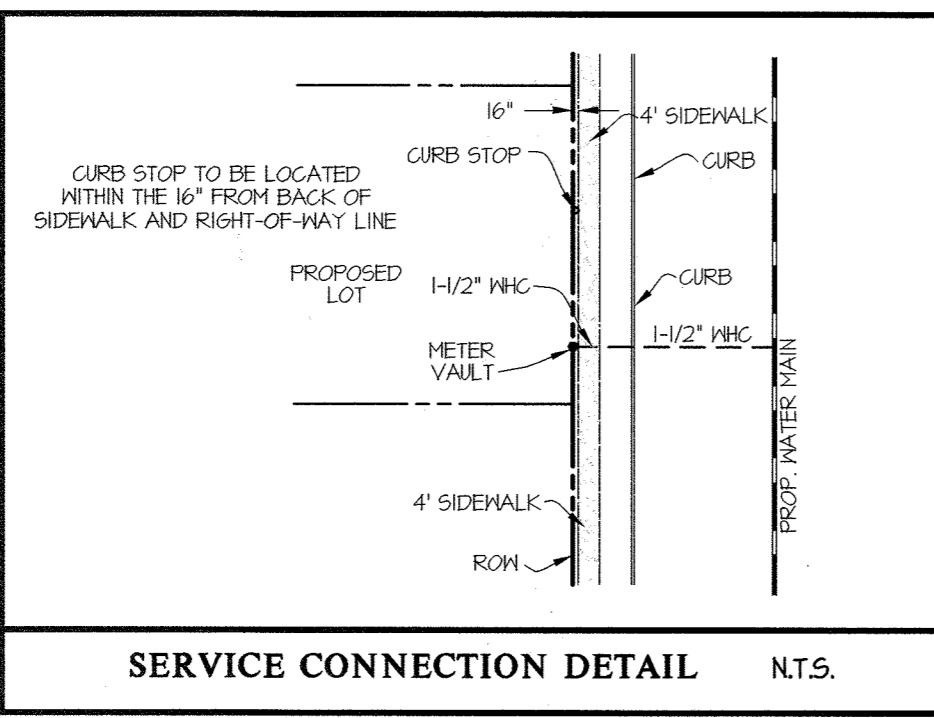


LOCATION PLAN SCALE: 1"=600'



LEGEND

	METER (OUTSIDE SETTING)		WATER HOUSE CONNECTION
	WATER LINE (PUBLIC - per separate contract)		WATER LINE (PUBLIC - per this contract)
	FIRE HYDRANT (FH)		PUBLIC WATER EASEMENT
	PROPOSED STORM DRAIN (per F-PLAN)		FUTURE WATER MAIN
	FUTURE SEWER MAIN		FUTURE STORM DRAIN
	FUTURE PROPERTY LINE		STREAM BUFFER
	WETLAND BUFFER		WETLAND AREA
	FOREST CONSERVATION EASEMENT		FLOOD PLAIN LIMITS
	ELECTRIC CONDUIT		

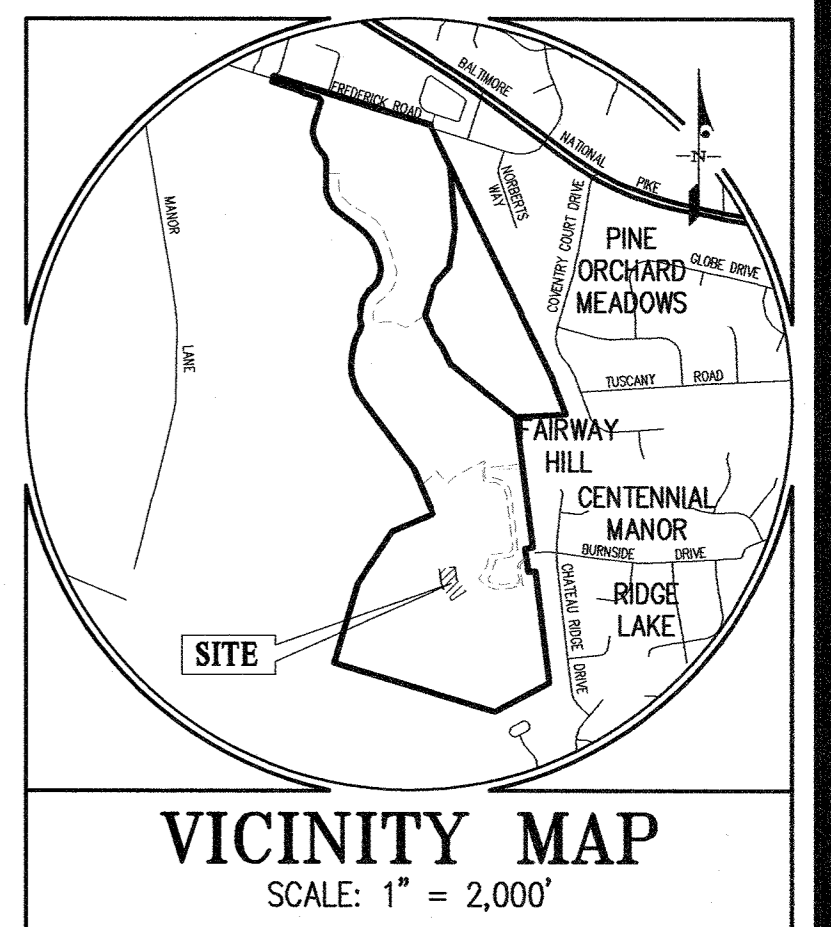


SERVICE CONNECTION DETAIL N.T.S.

SHEET INDEX

- COVER SHEET
- KEY MAP (1"=80')
- WATER PLAN AND PROFILE (1"=50') AND AS-BUILT INFORMATION

TYPE OF BUILDING	RESIDENTIAL
NUMBER OF UNITS	9
NUMBER OF S.H.C.'s	0
NUMBER OF W.H.C.'s	1 SINGLE
AREA OF COMMERCIAL LOT/PARCEL	0.0 AC.
SEWER SHED	Route 100
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT



BENCHMARKS

16HC: NORTHING: 584780.906	16HD: NORTHING: 580614.171
EASTING: 1344530.147	EASTING: 1340243.536

ADC MAP COORDINATES: MAP 4814 GRID L5 THRU J5
GRID K5 THRU K6

GENERAL NOTES

- Approximate locations of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's expense.
 - Topographic field surveys were performed on March, 1947 by BDI and then updated by grade checks performed by Gutschick, Little & Heber, PA and based on F-13-00B. The boundary information is based upon a field survey prepared by Gutschick, Little & Heber, PA on or about June, 2001.
 - Horizontal and Vertical Survey Controls: The coordinates shown on the drawings are based on Maryland State Reference System NAD 83/91 as projected by Howard County Geodetic Control Stations No. 46BC and No. 41EA. All vertical controls are based on NAVD 80. Vertical controls provided on the drawings are standard discs on concrete monuments.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
 - For details not shown on the drawing and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
 - Where test pits have been made on existing utilities, they are noted by the symbol at the locations of the test pits. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
 - The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE (Construction Services)	410-631-8713
BGE (Emergency)	410-695-0123
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1340
Miss Utility	1-800-251-7171
State Highway Administration	410-513-5533
Verizon	1-800-743-0033
 - Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
 - The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
 - The contractor shall notify the Bureau of Highways, Howard County, at (410)-313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or hose connections. The approval of these drawings will constitute compliance with DFR requirements per Section 1014(a) of the Howard County Code.
- Part II WATER**
- All water mains shall be D.I.P. Class 54 unless otherwise noted.
 - Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
 - Valves adjacent to tees shall be strapped to tees.
 - All fittings shall be bolted or anchored with concrete in accordance with Standard Details unless otherwise provided for on the drawings.
 - Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and Section 1005 of the Standard Specifications.
 - The contractor shall not operate any water main valves on the existing water system.
 - Tracer wires and continuity test stations shall be installed on all DIP and PVC water mains in accordance with the Howard County Design Manual.
 - For PVC water mains, all records for the Quality Control and Qualification Test Requirements noted in Section 5.1 of the ANNA C400 for PVC pressure pipe shall be submitted with the pipe material certifications or shop drawings prior to approval of the material for use. The test records shall be for the pipe to be installed under this contract. All PVC pipe shall contain markings to allow cross referencing of the pipe supplied to the test records received.
 - Unless otherwise noted on the plans or in the specifications sacrificial anodes shall be installed on all valves and metallic fittings used with PVC water mains in accordance with Volume IV, Standard Specifications and Details for Construction. Seventeen (17) pound Magnesium anodes shall be installed on all valves and ductile iron fittings including restrainers and harnesses. Twelve (12) pound Zinc anodes shall be installed on all stainless steel fittings and saddles used with PVC mains. All tees used with PVC mains shall be ductile iron.
 - Proper Assembly of Gasketed PVC Pipe Joints: The manufacturer's insertion line of gasketed PVC pipe joints indicates the maximum depth of insertion of the spigot into the bell. After assembly of the joint, the insertion line shall remain visible. Dual insertion lines on gasketed PVC pipe indicate the maximum and minimum depth of insertion of the spigot into the bell. The contractor shall not insert or over home the spigot into the bell of PVC pipe.
 - All changes in horizontal or vertical direction of PVC water pipe shall be made with standard bends, 5-degree sweeps or high deflection (HD) couplings. No bending of the pipe or deflecting of PVC pipe joints is permitted. Where high deflection couplings or 5-degree sweeps are permitted, the contractor shall provide one full pipe length (20-foot long) on either side of the high deflection coupling or 5-degree sweep. The contractor shall use a vibratory plate compactor or other approved means to thoroughly compact the #57 stone on both sides of the high deflection coupling or 5-degree sweep, taking care not to use compaction equipment directly over the fitting. PVC high deflection couplings shall be limited to a total deflection of 3-degrees (1 1/2-degree on either end of the coupling), shall be rated for a minimum 200 psi meeting the requirements of ANNA C400. shall have a minimum length of 4 inches and shall have center slope. PVC high deflection couplings shall be Certified PVC High Deflection (HD) Stop Couplings or equal. Five degree sweeps shall be bell by spigot, rated for a minimum 225 psi, DR18 meeting the requirements of ANNA C400 and shall be Multi Fittings (Apex) Blue Brute DR18 or equal.
 - When PVC high deflection couplings or PVC 5-degree sweeps are used to facilitate changes in horizontal or vertical alignments of ANNA C-400 PVC pipelines, the contractor shall install devices for the prevention of over-insertion of the PVC pipe spigots or plain ends into the push on bell joint on both sides of the high deflection couplings and 5 degree sweeps. Bell stops shall be placed at the proper insertion line for the fitting. The bell stop shall be manufactured of ductile iron and incorporate an expansion retention spring to allow for pipe expansion and contraction. The bell stops shall be Series 5000 Mega-Stop, as manufactured by EBAA Iron, Inc. or approved equal.
 - Per the Fire Sprinkler Code all residential single family dwellings will have a minimum 1-1/2" MHG with 1" meter, outside setting.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH F-21-032, SECTION 308 OF THE SPECIFICATIONS AT FINAL ROAD PLAN STAGE.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE _____ DATE _____

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Alexander Britsch* 11/04/21 DATE

OWNER/DEVELOPER
WESTMOUNT DEVELOPMENT CORP.
307 INTERNATIONAL CIRCLE
SUITE 130
HUNT VALLEY, MD 21030
410-489-4484
ATTN: ROBERT GOODIER

CONTRACT No. 44-5175-D
WESTMOUNT
PHASE 4A
LOTS 355 THRU 363
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

THIS CONTRACT IS FOR THE INSTALLATION OF WATER MAIN ONLY.

NOTE: CONTRACTS 24-4878-D (WESTMOUNT-PHASE 3A) AND 20-5167-D (WESTMOUNT-PHASE 3B) MUST BE PLACED IN-SERVICE TO ALLOW THIS CONTRACT TO BE PLACED IN-SERVICE

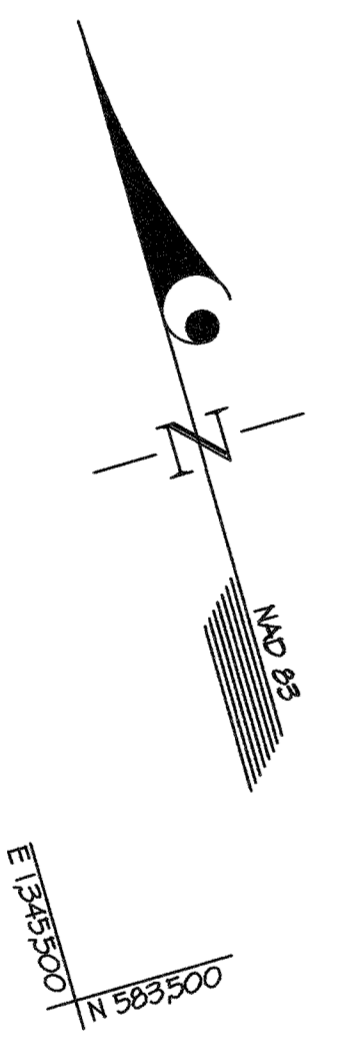
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 11-25-21	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 11-19-21	 PLANNING ENGINEERING SURVEYING 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE, MD 20866 GLWPA.COM PHONE: 301-421-4024 BALT: 410-880-1820 DCVA: 301-989-2524 FAX: 301-421-4196	DESIGNED BY: HJK DRAWN BY: HJK CHECKED BY: DEV DATE: OCT., 2021 G.L.W. No. 13013	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975 EXP. DATE: MAY 26, 2022 	SCALE AS SHOWN SHEET 1 OF 3
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L:\CAD\DRAWINGS\13013\PLANS BY G.L.W.\S\FINALS\PHASE 4\PHASE 4A\13013-PH4A-FINALS-MS-COVER SHEET.dwg
 PLOTTED: 11/25/21 10:53 AM, PLOT: EAST, PLOTTER: HP DesignJet 5000, PLOT SIZE: 36" x 48", PLOT SCALE: 1"=600', PLOT ORIGIN: 0,0

LEGEND	
	PROPERTY LINE
	PROPOSED CURB
	SEWER MAIN
	FIRE HYDRANT
	WATER MAIN
	EX. SEWER
	EX. FIRE HYDRANT
	EX. WATER MAIN
	LIMITS OF THIS PHASE



N 584500
E 1746000



N 582500
E 1744500

L:\CAD\DRAWINGS\13013\PLANS BY GLW\5\13013\PHASE 4A\13013-PH4A-FINALS-MS-HET.MXD

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-25-21
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 11-19-21
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW
PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC/VA: 301-989-2524 | FAX: 301-421-4189

DESIGNED BY: **HKJ**
DRAWN BY: **HKJ**
CHECKED BY: **DEV**

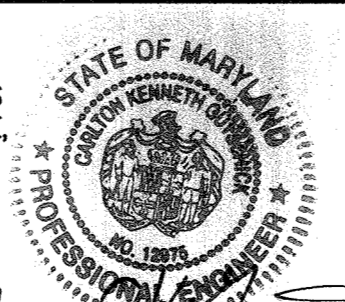
DATE: OCT., 2021

G.L.W. No. 13013

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975, EXP. DATE: MAY 26, 2022

[Signature] 10/15/21



NO.	REVISION	DATE

PHASING KEY MAP

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

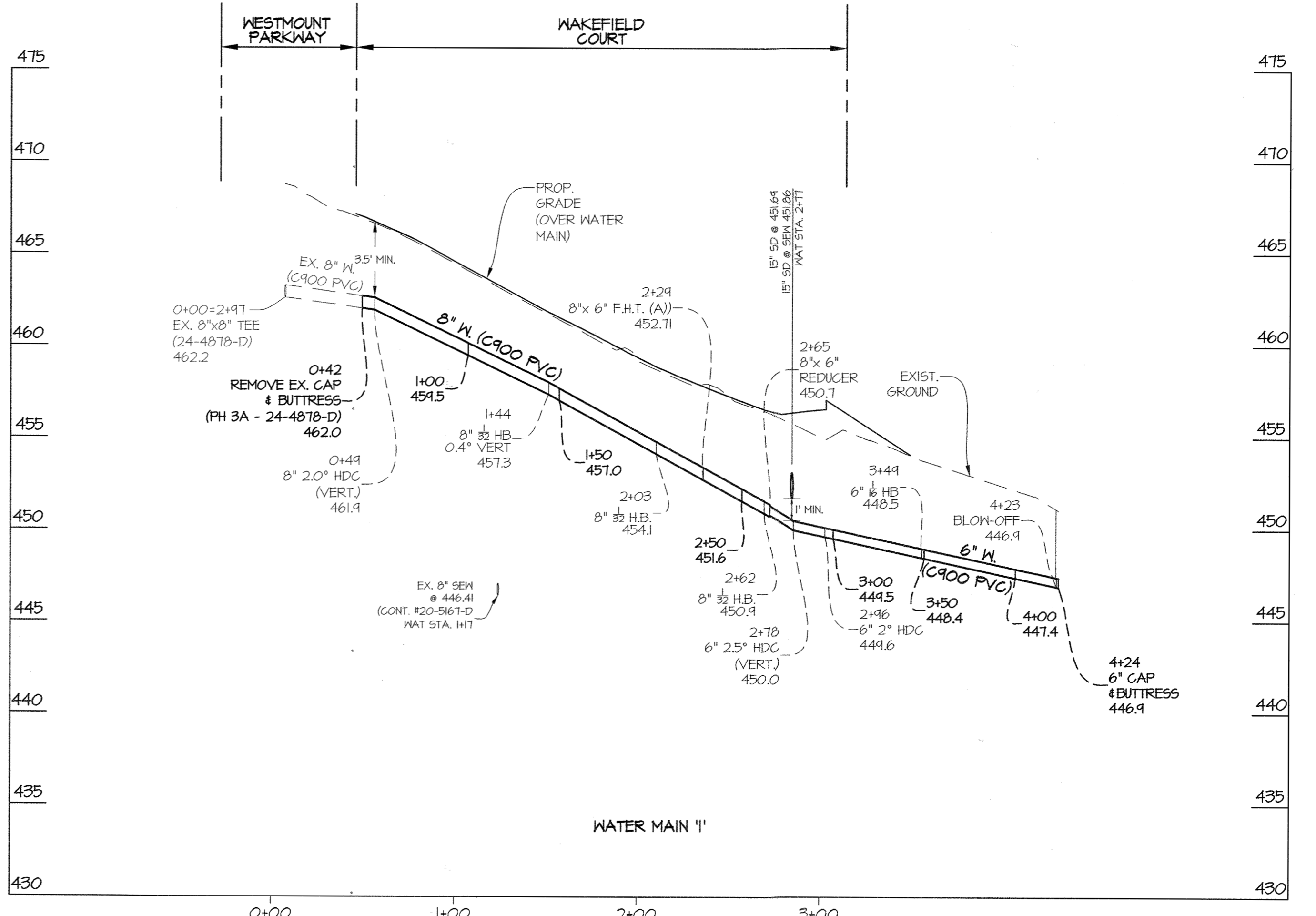
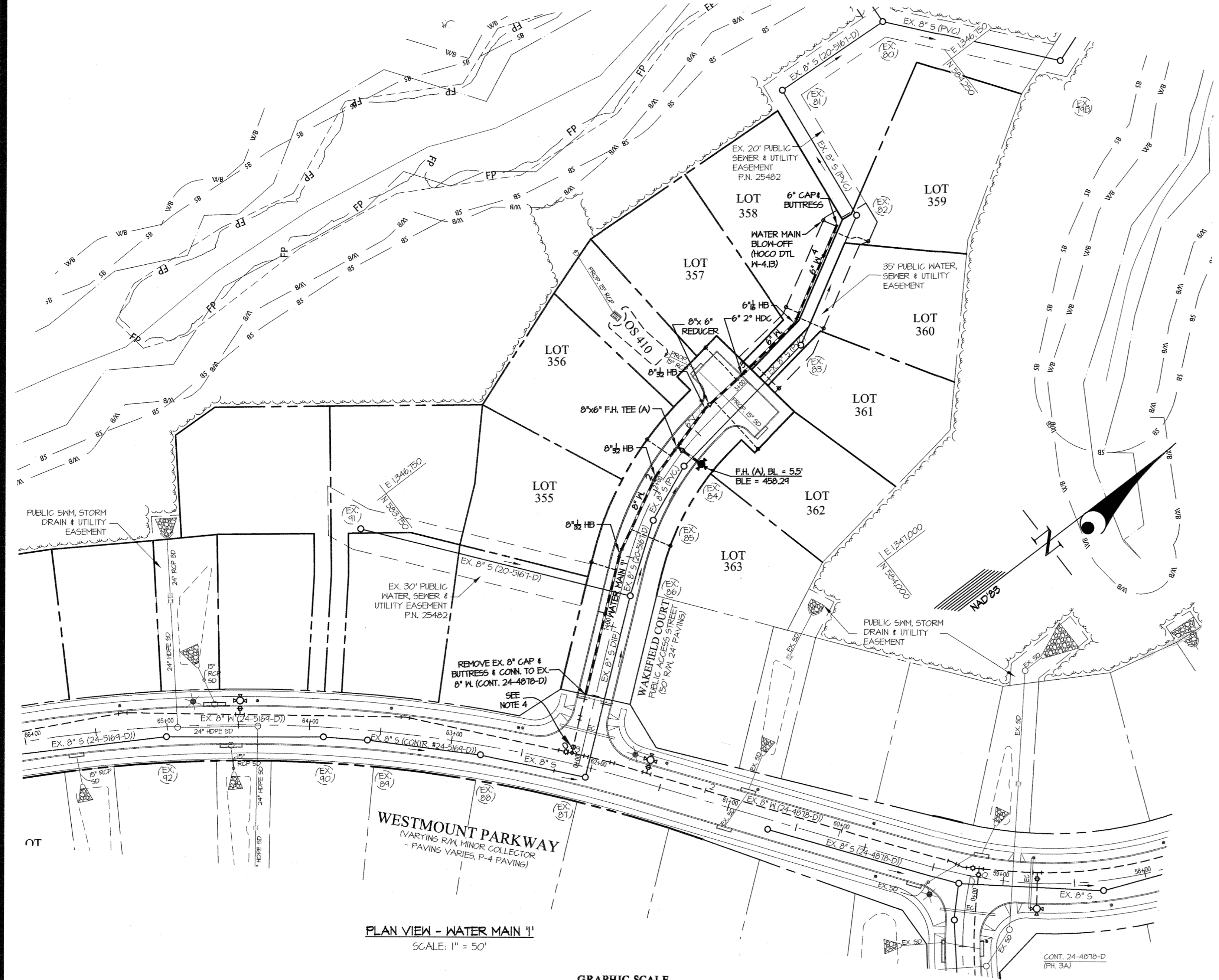
WESTMOUNT
CONTRACT No. 44-5175-D
PHASE 4A
LOTS 355-363
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE 1"=80'
SHEET 2 OF 3

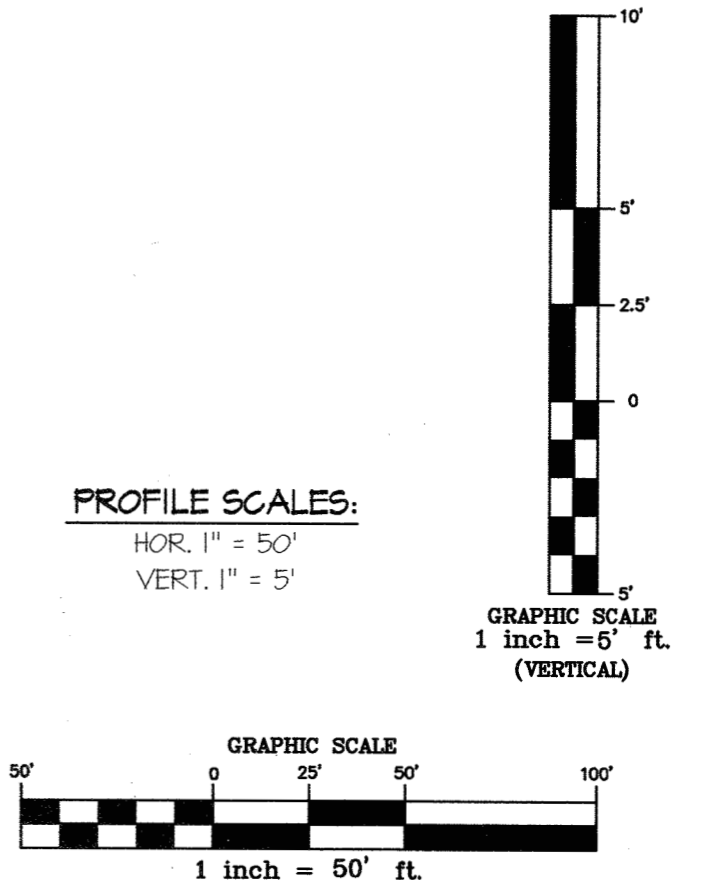
FITTING CHART		
STATION	FITTING	LOCATION
WATER MAIN "I"		
0+44	8" 2" HDC (VERT.)	SEE PROFILE THIS SHEET
1+44	8" 1/2 HB	N 503,855 E 1,346,803
2+03	8" 1/2 HB	N 503,909 E 1,346,855
2+21	8"x6" FHT (A)	N 503,951 E 1,346,840
2+62	8" 1/2 HB	N 503,964 E 1,346,834
2+65	8"x6" REDUCER	N 503,967 E 1,346,834
2+78	8" 2.5" HDC (VERT.)	SEE PROFILE THIS SHEET
2+46	8" 2" HDC	N 503,918 E 1,346,836
3+48	8" 1/2 HB	N 504,021 E 1,346,850
4+23	BLOW-OFF	N 504,115 E 1,346,744
4+24	6" CAP & BUTTRESS	N 504,116 E 1,346,743

FIRE HYDRANT TEE INFORMATION	
FHT	LOCATION
(A)	N 503,958 E 1,346,868

- NOTES:
- OUTSIDE METERS WILL BE PER HOWARD CO. DETAIL H 5.28.
 - ALL WHO'S SERVING NUMBERED LOTS ARE 1" WITH A 1" METER OUTSIDE SETTING. ALL WHO'S SHOWN ARE PROPOSED UNLESS OTHERWISE NOTED.
 - WATER MAIN IS 8" C900 PVC (DR-18) UNLESS OTHERWISE NOTED.
 - EXISTING VALVE TO BE CLOSED BY DPH FOR CONSTRUCTION.
 - ALL STORM DRAIN TO BE HDPE UNLESS NOTED OTHERWISE.
 - ALL FIRE HYDRANTS TO BE INSTALLED PER HOCO DETAIL H-II. CONTINUITY TEST STATIONS TO BE INSTALLED AT ALL FIRE HYDRANTS PER H-IJ.



AS-BUILT INFORMATION					
LOT #	ADDRESS	WATER HOUSE CONNECTION AS BUILT		SEWER HOUSE CONNECTION AS BUILT	
		LOCATION DIM. 1	LOCATION DIM. 2	LOCATION DIM. 1	LOCATION DIM. 2
355	3052 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
356	3056 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
357	3064 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
358	3068 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
359	3067 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
360	3063 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
361	3054 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
362	3055 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	
363	3051 WAKEFIELD COURT			SEE 20-5167-D PHASE 3B	



NOTE: CONTRACTS 24-4878-D (WESTMOUNT - PHASE 3A) AND 20-5167-D (WESTMOUNT - PHASE 3B) MUST BE PLACED IN-SERVICE TO ALLOW THIS CONTRACT TO BE PLACED IN-SERVICE

L:\CADD\DRAWINGS\2024\PHASE 4A\15013 PHASE 4A-FINALS-HS-PLAN & PROFILE.dwg
 PLOT: 2024/09/25 10:50 AM JAB SAVERI/NO.06/2024/09/25/15013 PHASE 4A-FINALS-HS-PLAN & PROFILE.dwg

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 10-25-24	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 11-19-24	3809 NATIONAL DRIVE SUITE 250 BURTONSVILLE, MD 20886 GLWPA.COM PHONE: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	DESIGNED BY: Wsj DRAWN BY: Wsj CHECKED BY: DEV DATE: OCT. 2021 G.L.W. No. 13013 EXP. DATE: MAY 28, 2022	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975 	WATER PLAN, PROFILE and AS-BUILT INFORMATION 600' SCALE MAP NO. 23 BLOCK NO. 6 & 12	WESTMOUNT CONTRACT No. 44-5175-D PHASE 4A LOTS 355-363 HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 2	SCALE AS SHOWN SHEET 3 OF 3
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